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APPLICATION NO.	FILING D	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,283	10/758,283 01/16/2004		Ryoichi Ishikawa	107355-00105	5140
4372	7590	05/16/2005		EXAMINER	
ARENT FO		MAI, NGOCLAN THI			
1050 CONN SUITE 400	ECTICUT AVE	ART UNIT	PAPER NUMBER		
WASHING	TON, DC 2003	36	1742		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/758,283	ISHIKAWA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ngoclan T. Mai	1742					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 1/16	<u>/04</u> .						
2a) This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Pater Application (PTO-152)					
Paper No(s)/Mail Date <u>1/16/04</u> .	6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No./Mail Date 04142005					

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DETAILED ACTION

This office action is to substitute previous office action.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are drawn to method for manufacturing however there is no positive active method step present in the claims which rendering them indefinite.

Claim 4 appears to be a duplication of claim 5 because the metal plate of claim 4, which depends on claim 1 inherently is a flat plate.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al. (US 3,087,807).

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Allen et al. disclose a method for making foamed-metal structure comprising mixing a powdered structure metal with a powdered gas-forming material, compacting the mixture to form a compacted material having gas-forming material embedded in the structure metal, placing the compact in a hollow structure and subjecting the compact to above the melting temperature so that rapidly foaming takes place to fill the hollow structure. Allen et al teach the structure metal can be aluminum and gas-forming material can be hydride of titanium, col. 5, lines 46-54, while hollow structure material can be thin aluminum tube, col. 4, lines 52-62.

The difference between the claims and Allen et al is that Allen et al teach placing the compact in a hollow structure to envelop the compact while applicant claims attaching the compact to one side faces of a metallic flat plate and then plastic deforming the metallic flat plate in such a way to envelop the compact. Therefore, the difference between prior art and the claimed invention lies in the step of producing metal enveloped compact. However, such alternate methods for making metal enveloped compact would have been obvious to one skilled in the art unless there is evidence indicating such feature is critical. It is noted that the specification contains no disclosure of either the critical nature of the claimed method in making the metal enveloped compact or any unexpected results arising therefrom, hence whether the foam is put in a pre-made enclosure as in the prior art or put on a flat plate followed by plastic deforming the plate to make the enclosure as claimed will not support the patentability of the subject matter encompassed by the prior art. Where patentability is said to be based upon particular features recited in the claim, the applicant must show that the

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chosen features are critical. *In re Woodruff*, 919 F.2d, 1575, 1578, 16 USPQ2d, 1936 (Fed. Cir. 1990).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngoclan T. Mai Primary Examiner Art Unit 1742

n.m.